## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Ap	plication of:	IPF	)			
	FARMWALD ET AL.	1 9 2000 E VIIII	)	U.C. Data	4 No. 1 C O	24.040
Serial N	lo: <b>09/252,997</b>		)	U.S. Pater	nt No. : <b>6,0</b> 3	54,918
Filed:	February 19, 1999	TEAT & TRADELLE	)			
Title:	METHOD OF OPERA HAVING A VARIABLE AND A PROGRAMMA	E DATA OUTPUT	) )			
	ssioner of Patents and T gton, D.C. 20231	rademarks				·
		TRANSMITTAL LET	TER			
Dear Si	r:					
CERTIF	With respect to the abov FICATE OF CORRECTION For the second it is to	ON UNDER 37 CFR §	<b>1.322</b> .			
[	A check payable to the senctose	e Commissioner of Pated as payment of the T			rks, in the a	mount of
[ ]	Please charge our Deposit Account No. <u>50-0998</u> in the amount of <u>\$</u> to cover the above fees. A duplicate copy of this sheet is enclosed.					
[ <b>XX</b> ]	The Commissioner is or credit any overpayment sheet is enclosed.					
			Resp	ectfully sub	mitted,	
Date: Ju	une 14, 2000		By: _	Med	W	

Neil A. Steinberg Registration No. 34,735 650-944-7772

Cope C #14 (ECD)

Patent No. 6,034,918

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

FARMWALD, ET AL.

Serial No.:

09/252,997

Filed:

**FEBRUARY 19, 1999** 

Title:

METHOD OF OPERATING A

MEMORY HAVING A VARIABLE DATA

**OUTPUT AND A PROGRAMMABLE** 

REGISTER

Assistant Commissioner for Patents Washington, DC 20231

## Certificate of Mailing Under 37 CFR 1.8

I hereby certify that the attached 1) Transmittal Letter (1 page and 1 copy thereof), 2) Request for Certificate of Correction (3 page and 2 exhibits attached) and 3) Certificate of Correction (1 page) is/are being deposited with the United States Postal Service with sufficient postage as first class U.S. mail in an envelope addressed to:

Assistant Commissioner for Patents

Assistant Commissioner for Patents Washington, D.C. 20231

On June 15, 2000.

Michiko Sites

(Signature)

(Print Name of Person Signing Certificate)

JUN 19 2000 STEEL

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:	)
FARMWALD ET AL.	)
Serial No.: <b>09/252,997</b>	) Patent No.: 6,034,918
Filed: February 19, 1999	)
Title: METHOD OF OPERATING A MEMORY HAVING A VARIABLE DATA OUTPUT LENGTH AND A PROGRAMMABLE REGISTER	) ) ) )

Commissioner of Patents and Trademarks Washington, DC 20231

## REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 CFR § 1,322

Dear Sir:

It is respectfully requested that the Commissioner save the attached Certificate of Correction to correct typographical errors in U.S. Patent 6,034,918 ("the '918 patent", copy attached as Exhibit 1). In particular, the attached Certificate of Correction seeks to correct errors in claims 13-16 and claims 35-38. Claims 13-16 should have been printed as being dependent on claim 1 rather than being dependent on claim 11, as they were printed in the '918 patent. Claims 35-38 should have been printed as being dependent on claim 34 rather than being dependent on claim 32, as they were printed in the '918 patent

The Preliminary Amendment of February 19, 1999, copy attached as Exhibit 2, clearly discloses claims 163-166 being dependent on

Page -1-

DEC 0 7 2000

AFFRUVED

claim 151. Claim 151 was renumbered claim 1 in the '918 patent and claims 163-166 were later renumbered claims 13-16, respectively. There were no subsequent amendments of the above-referenced application which affected the claim dependency of claims 163-166 (i.e., claims 13-16 in the '918 patent).

In addition, the Preliminary Amendment of February 19, 1999 clearly discloses claims 185-188 being dependent on claim 184. Claim 184 was renumbered claim 34 in the '918 patent and claims 185-188 were later renumbered claims 35-38, respectively. There were no subsequent amendments of the above-referenced application which affected the claim dependency of claims 185-188 (i.e., claims 35-38 in the '918 patent).

This error incurred through the fault of the U.S. Patent and Trademark Office ("USPTO"), as is clearly disclosed by the records in the USPTO.

It is respectfully requested that the attached Certificate of Correction issue. It is noted that should a telephone interview expedite consideration of this request in any way kindly contact Neil Steinberg at 650-944-7772.

Date: June 14, 2000

Respectfully submitted,

Neil A. Steinberg Attorney of Record Reg. No. 34,735

650-944-7772

PTO/SB/ 44 (10-96)

Approved for use through 6/30/99. OMB 0651-0033

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

(Also Form PTO-1050)

# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO :

6,034,918

DATED

Mar. 7, 2000

INVENTOR(S):

Farmwald et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In Col. 25, on line 62, delete "11" and substitute --1--.

In Col. 25, on line 65, delete "11" and substitute --1--.

In Col. 26, on line 1, delete "11" and substitute --1--.

In Col. 26, on line 6, delete "11" and substitute --1--.

In Col. 28, on line 16, delete "32" and substitute --34--.

In Col. 28, on line 18, delete "32" and substitute --34--.

▶ In Col. 28, on line 21, delete "32" and substitute --34--.

In Col. 28, on line 33, delete "32" and substitute --34--.

MAILING ADDRESS OF SENDER:

Neil A. Steinberg Rambus Inc. 2465 Latham Street

Mountain View, CA

PATENT NO. 6,034,918

No. of additional copies



94040



# US006034918A

## United States Patent [19]

Farmwald et al.

[11] Patent Number:

6,034,918

[45] Date of Patent:

Mar. 7, 2000

[54] METHOD OF OPERATING A MEMORY HAVING A VARIABLE DATA OUTPUT LENGTH AND A PROGRAMMABLE REGISTER

[75] Inventors: Michael Farmwald, Berkeley; Mark

Horowitz, Palo Alto, both of Calif.

[73] Assignee: Rambus Inc., Mountain View, Calif.

[21] Appl. No.: 09/252,997

[22] Filed: Feb. 19, 1999

### Related U.S. Application Data

[63] Continuation of application No. 09/196,199, Nov. 20, 1998, which is a continuation of application No. 08/798,520, Feb. 10, 1997, Pat. No. 5,841,580, which is a division of application No. 08/448,657, May 24, 1995, Pat. No. 5,638,334, which is a division of application No. 08/222,646, Mar. 31, 1994, Pat. No. 5,513,327, which is a continuation of application No. 07/954,945, Sep. 30, 1992, Pat. No. 5,319,755, which is a continuation of application No. 07/510,898, Apr. 18, 1990, abandoned.

[51]	Int. Cl.'	G11C 8/00
[52]	U.S. Cl	365/233; 395/878; 395/880
[50]	Elald of Count	265/222 225

[56] References Cited

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(List continued on next page.)

Primary Examiner.—I'an T. Nguyen Attorney, Agent, or Firm.—Neil A. Steinberg; Steinberg & Whitt, LLP

#### [57] ABSTRACT

A method of controlling a memory device is disclosed wherein the memory device includes a plurality of memory cells. The method comprises providing first block size information to the memory device, wherein the first block size information defines a first amount of data to be output onto a bus in response to a read request. The method further includes issuing a first read request to the memory device, wherein in response to the first read request, the memory device outputs the first amount of data corresponding to the first block size information onto the bus synchronously with respect to an external clock signal. In one preferred embodiment, the method may include providing a code which is representative of a number of clock cycles of the first and second external clock which are to transpire before data is output by the memory device onto the bus. The memory device stores the code in a programmable register on the memory device. In this preferred embodiment, the first amount of data corresponding to the first block size information is output after the number of clock cycles of the external clock transpire.

#### 38 Claims, 15 Drawing Sheets

ADDRVALID	BUSDATA(0:7)		CY
#1	ACCESSTYPE[0:3] : MASTER[0:3]	1 24	٥
}	ADDRESS[0:8]	25	1
1	ADDRESS[9:17]		2
	ADDRESS[18:26]		3
	ADDRESS[27:35]	26	4
# 1	ADDRESS[36:39] : BLOCKSIZE[0:3]	28	5
	xxx	29	6
0	xxx	30	7
	xxx	31	8
0	xxx	32	. و
1 0	INVALID: REQUEST[1:7]	33	10
1	REQUEST[8:15]	34	1,,

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Ap	pplication of:	OIPE	)	
	FARMWALD ET AL.	JUN 1 9 2000 5	) ) 	
Serial N	lo: <b>09/252,997</b>	\_ \	) U.S. Patent No. : <b>6,034,918</b>	
Filed:	February 19, 1999	THADEWINE THADE	)	
Title:	METHOD OF OPERA HAVING A VARIABLE AND A PROGRAMMA	DATA OUTPUT	) ) )	
	ssioner of Patents and T gton, D.C. 20231	rademarks		
		TRANSMITTAL LETTE	:R	
Dear Si	r:			
CERTIF	ICATE OF CORRECTION	•	nitted herewith is a <b>REQUEST FOR</b> <b>322</b> . No fee is required. However, ow:	
[	A check payable to the Commissioner of Patents and Trademarks, in the amount of \$ is enclosed as payment of the Total Fee Due.			
[	] Please charge our Deposit Account No. <u>50-0998</u> in the amount of <u>\$</u> to cover the above fees. A duplicate copy of this sheet is enclosed.			
[XX			rge any fees which may be required, lo. <u>50-0998</u> . A duplicate copy of this	
		F	Respectfully submitted,	
Date: Jເ	une 14, 2000	E	By: Neil A. Steinberg	

Registration No. 34,735 650-944-7772